

NOVA

Dependable Gas Analysis Solutions



7460 SERIES RUGGED PORTABLE ANALYZERS FOR ENGINE EXHAUST EMISSIONS

APPLICATIONS

For checking engine exhaust emissions for diesel, gasoline, propane, or natural gas powered 2 and 4 cycle engines. Analysis of carbon monoxide (CO), hydrocarbons (HC's), carbon dioxide (CO₂), oxygen (O₂), oxides of nitrogen (NO_x), nitric oxide (NO), and nitrogen dioxide (NO₂).

FEATURES

- Rugged design that is easy to operate and maintain
- Fast warm up and accurate response
- Large digital readouts with back light for each gas
- Simple to operate, compact size
- Solid state infrared detectors for CO, CO₂, and HC's
- Rechargeable battery operation (recharge from vehicle or from AC adapter)
- Provided with sample filter, and flexible sample probe with 12 ft. of hose, built in sample pump and automatic condensate removal
- Meets Bar 97 and OIML specifications
- Suitcase (K) style cabinet

OPTIONS

- Analog 4-20 mA outputs
- Built in printer (add 'P' suffix)
- Datalogger for PC computer
- Add NO (as NO) to any analyzer (add 'N' suffix)
- Add NO₂ to any analyzer (add 'X' suffix)
- PPM CO in place of '%' (add 'L' suffix)
- Bench top (BT) style cabinet
- Wallmount version with active condensate removal (QN4)

CALIBRATION

- Zero on air
- Span on blended gases. NO and NO₂ blend to be separate.



Suitcase (K)
Enclosure



Bench Top (BT)
Enclosure



Wall Mount (N4)
Enclosure

DESCRIPTION

The 7460 Series Portable Analyzers are available in six versions for the simultaneous measurement of the gases typically found in the exhaust from internal combustion engines. CO, CO₂, and HC's are detected by a dual-wavelength infra red detector. O₂ and NO_x (as NO) are detected by customer-replaceable electrochemical sensors. If NO₂ analysis is selected, this is also by electro-chemical sensor.

All detector outputs are displayed on separate front panel digital meters. Optional built in printer, datalogger and 4-20 ma recorder outputs are also available.

The 7460 Series Analyzers come complete with built in sampling pump, flow meter, automatic condensate removal, filters, PTFE liquid block, 12 ft. (4m) sampling hose, and stainless steel probe. Also included are a cigarette lighter socket and remote printer actuator button for printer based models.

MODELS

Available in suitcase (K), benchtop (BT) or wall mounted (N4) cabinet styles

- 7461: CO only
- 7462: CO and Hydrocarbons (HC's)
- 7463: CO, CO₂, and HC's
- 7464: O₂, CO, CO₂, and HC's
- 7465: O₂, CO, CO₂, HC's, and NO_x (as NO)
- 7466: O₂, CO, CO₂, HC's, and NO_x (as NO + NO₂)

SPECIFICATIONS

Nova reserves the right to specification changes which may occur with advances in design without prior notice.

Description	
Method of Detection:	CO (standard range), CO ₂ , and HC by infrared detector CO (low-range), NO, NO ₂ , and O ₂ by long life electrochemical sensor.
Available Ranges:	0-20.0% CO ₂ 0-10.00% CO (special low range PPM CO available) 0-25.0% O ₂ 0-2000 to 0-20,000 PPM HC's (as propane or hexane) 0-800 PPM NO ₂ 0-2000 PPM NO _x (as NO)
Resolution:	0.1% on % gas, 1 PPM on PPM gas
Accuracy and Repeatability:	± 1% of full scale for O ₂ , CO, CO ₂ and HC's ± 2% of full scale for NO _x
Drift:	< ± 1% in 8 hours after full warmup
Response Time (T90):	8-10 seconds
Ambient Temperature Range:	0 to 40°C
Linearity:	± 1.0% of full scale each gas measured
Size And Weight:	K style - approx. 14"W x 6"H x 10 1/2"D (35.5 x 15.2 x 26.6 cm), 12 lbs (5.5 kg)
Power:	115 VAC or 220VAC, 50/60Hz for recharging. Also 12VDC for cigarette lighter socket
Optional Outputs:	4-20mA or 0-1VAC, Isolated 4-20mA, RS232, RS485

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